

### **Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

### **Listing of Claims:**

1. (Original) A method, in a data processing system, for generating a minimized call tree data structure from trace data obtained from a plurality of executions of a computer program, comprising:
  - obtaining a plurality of call tree data structures corresponding to the trace data for the plurality of executions of the computer program;
  - generating a minimized call tree data structure from the plurality of call tree data structures, wherein the minimized call tree data structure includes a minimum set of nodes that are consistent between the plurality of call tree data structures; and
  - outputting the minimized call tree data structure.
2. (Canceled)
3. (Canceled)
4. (Original) The method of claim 1, wherein generating the minimized call tree data structure includes:
  - copying a first call tree data structure; and
  - walking a second call tree data structure over the first call tree data structure to generate the minimized call tree data structure.
5. (Original) The method of claim 4, wherein walking the second call tree data structure over the first call tree data structure includes:
  - for each node that exists in both the first call tree data structure and the second call tree data structure, generating a node in the minimized call tree data structure and associating values with the node.
6. (Original) The method of claim 5, wherein the values associated with the node are values that correspond to the minimum of the values associated with corresponding nodes in the first call tree data structure and the second call tree data structure.

7. (Original) The method of claim 4, wherein walking the second call tree data structure over the first call tree data structure includes:

for each node that exists in only one of the first call tree data structure and the second call tree data structure, inhibiting creating a node in the minimum call tree data structures.

8. (Original) The method of claim 6, wherein the values associated with each node in the minimized call tree data structure include a minimum base value, a minimum number of calls, a minimum cumulative value, and a minimum absolute cumulative value.

9.-24. (Canceled)